CDM8500

OWNER'S MANUAL

AUDIOVOX COMMUNICATIONS CORP.

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AUDIOVOX
CDM-8500VM

In today's fast paced world, it has become a necessity to have access to real time information. Your communications tools must provide you with this access from anywhere at anytime. With that in mind, Audiovox developed the CDM-8500, a tri mode clamshell style cell phone with dual LCD displays.

This 1X digital cell phone enables carriers supporting 1X technology to provide consumers with access to high speed connectivity. Operating on the 800 MHz Amps/ CDMA and 1900 MHz PCS frequencies, the CDM-8500 allows for seamless nationwide coverage as well as offering state-of-the-art, user-friendly features. Voice activated dialing and 2-way speakerphone are great for enhancing hands-free use of this phone. T9™ Text Input, vibrating alert and a 7-line LCD display make the CDM-8500 easier to use.

Your new CDM-8500 provides you with something only an Audiovox phone can: the proven reliability that has made us a leading wireless cell phone provider. Please take a few moments to read the following pages of the owner's manual. It will help you make the most efficient use of this valuable communications tool.

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Chapter 1

BEFORE USING YOUR PHONE

Please read and fully understand this manual before using your phone.

This chapter addresses your phone, its keys, display icons, and the charging and proper use of the battery.

Once you have read this chapter, you can move on to the basic and advanced features of your phone.

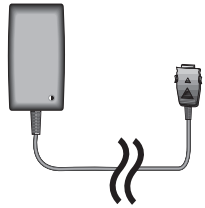
- Package Contents
- Cell Phone Description
- Function Keys
- Display Indicators
- Using the Battery
- Charging the Battery
- Battery Information

PACKAGE CONTENTS

Thank you for purchasing the CDM-8500 wireless cell phone. The phone's packaging consists of the items listed below.

Cell phone

Standard Battery



Travel Charger

User Manual

NOTE: Immediately report any product defects or missing items to the place of purchase.

CELL PHONE DESCRIPTION

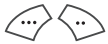
This phone is a tri mode CDMA2000 1X digital phone with data capabilities. The CDM-8500 weighs at 3.1 oz. and the dimensions are 3.3" x 1.6" x 9".

FUNCTION KEYS

END KEY: Press to turn the cell phone on or off. Terminates a call or exits the current menu.

SEND KEY: Press to make or receive a call.

NAVIGATION KEY: Press the arrow keys to scroll through the menu. Press OK to select an item in the menu.
Press and hold to check your Virgin Mobile Balance.



SOFT KEYS: Press to perform the functions displayed above them on the LCD Display.

VX KEY: Press to access VirginXtras.

CLEAR KEY: Press to clear characters or enable the speakerphone mode.

LOCK KEY: Press and hold to enter the Lock mode.

ETIQUETTE MODE KEY: This mode disables the keypad tone and enables vibrating alert.

DISPLAY INDICATORS

Signal Strength

Indicates current signal strength. The more bars, the stronger the signal.

Service Indicator

When a call is in progress, is displayed. When is displayed, the phone is in idle mode. When is displayed, the phone is not receiving a signal from the system.

Message

Text or voicemail message is waiting.

Digital Mode

Phone is operating in digital mode.

Battery

Charge level status. The more black lines, the greater the charge.

Mute

Phone is mute during a call.

1X

Phone is in the 1x service area.

Silent

Mutes key tones during a call.

DISPLAY INDICATORS

Emergency call
Blinks when an emergency call is in progress.

Answering machine memo
New voice memos.

Answering machine
Phone is in auto answer mode.

Etiquette
Phone is in etiquette mode (vibration alert).

Schedule
Event or an alarm is set.

Ringtone Mode
One of these four icons will appear when the corresponding Ringtone Mode has been selected.

Ringtone	Ringtone after vibrate	Silent	Vibrate

GPS Icon
911 Only

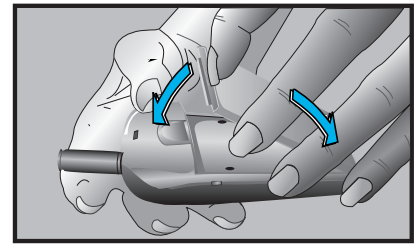
Location On

USING THE BATTERY

INSTALLING THE BATTERY

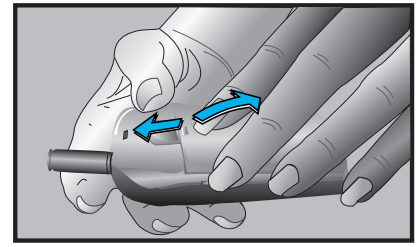
1. Insert the bottom of battery into groove at bottom of the cell phone.

2. Press in the top of the battery until it clicks.



REMOVING THE BATTERY

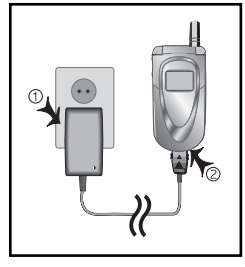
1. Push the tab with one hand and lift the top of the battery to separate.



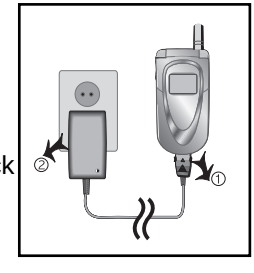
NOTE: ***If the battery is not correctly placed in the battery compartment, the cell phone will not turn on and/or the battery may detach during use.***

CHARGING THE BATTERY

The TRC-8500 rapid charger will both power the phone and charge the battery simultaneously. The unit attaches directly to the phone. Charging time will vary depending on the battery's initial capacity at the beginning of the charge.



1. Attach the battery pack to the phone.
2. Insert plug into AC wall outlet.
3. Plug in the interface connector by gently inserting it into the appropriate contacts on the bottom of the phone.
4. LED will light RED during charging and turn to GREEN when the battery is fully charged.
5. The phone can be operated while the battery is charging.
6. To remove the TRC-8500 from your phone, press the release buttons on the sides of the interface connector and slide it away from the phone.
7. After recharging, the battery pack may become a little warmer. This is normal.



NOTE: ***1. The battery is not charged at the time of purchase.***
2. Fully charge the battery before use.

CHARGING THE BATTERY

NOTE: ***1. It is more efficient to charge the battery with the cell phone off.***
2. The battery must be connected to the phone in order to charge it.
3. If the LED flickers while charging. May need cleaning or there may be a problem with the battery.
4. Battery operating time gradually decreases over time.
5. If the battery fails to perform normally, you may need to replace the battery.

BATTERY CHARGING TIME

Battery Type	BTR - 8500
Charging Time	240 minutes

NOTE: ***Charging time applies only when your phone is turned off. Charging time may vary if your phone is turned on.***

BATTERY TALK AND STANDBY TIMES

		Standard Battery (900mAh)
Talk Time (min)	Digital	190
	Analog	90
Standby Time (hrs)	Digital	150
	Analog	12

NOTE: ***These times are for a new battery. Talk and standby time may decrease over time.***

BATTERY INFORMATION

Use only manufacturer approved batteries.

Never use a damaged or worn out battery.

Use the battery only for its intended purpose.

Never expose the battery terminals to any other metal object. This can short circuit the battery.

Avoid exposure to temperature extremes. A phone with a hot or cold battery may temporarily not work (or charge), even if the battery is fully charged. Always allow it to cool down or warm up first and keep the battery between 41°F and 95°F (5°C and 35°C).

When not in use, store the battery uncharged in a cool, dark, dry place.

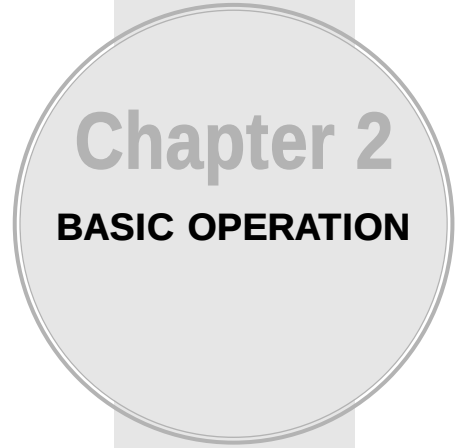
The battery is a self-contained unit. Do not attempt to open its case.

Battery operating time gradually decreases. You may need to buy a new battery.

Never dispose of a battery in a fire!

Dispose of used batteries in accordance with local regulations.

Recycle!



This chapter addresses the phone's basic functions including menus, volume levels, and call features.

- Using the Phone
- Using the Menu
- Menu Summary (Sample)
- Basic Functions
- Functions During a Call
- Virgin Mobile Account
- Virgin Alerts

USING THE PHONE

TURNING THE PHONE ON

1. Press and hold ⏻ until the Virgin Mobile logo appears, then reappears behind 2 vertical lines.

- ***If "PASSWORD" appears, the phone is locked. To unlock, enter your 4-digit password.***

NOTE: The default password is the last 4 digits of your phone number.

TURNING THE PHONE OFF

1. Press and hold ⏻ until the Virgin Mobile logo disappears behind two horizontal lines.

NOTE:
1. If "LOW BATTERY WARNING POWER OFF" appears and the power goes off, there is a possibility of damaging your phone's memory. It is recommended that you change or charge the battery.
2. If the battery is removed while the phone is on, information about the last call may be erased.

VIRGIN MOBILE ACCOUNT

You can manage your Virgin Mobile account from your phone. The basic tasks are summarized below. For more information about your account, contact Virgin Mobile.

Checking your Virgin Mobile Account Balance
You can check the amount of money remaining in your Virgin Mobile account.
- Select Menu – Balance – Check Balance; or
- From the Standby screen, press and hold 5 .

Top-Up your Account
You can Top-Up your account over the air.
To Top-Up your account over the air using your phone, you need a credit card registered with Virgin Mobile and service on your phone.
- Select Menu – Top-Up and select the appropriate options.

For More Information
For more information about your Virgin Mobile account and Virgin Mobile service, visit www.virginmobileusa.com or contact Virgin Mobile at (888) 322-1122. For more information on your phone, visit www.audiovox.com.

USING THE MENU

USING THE MENU

1. To enter the main menu from the standby screen, press ⋯ .
2. Use the navigation key ◎ to view menu selections.
3. To go back to previous screen, press ⋰ .
4. To exit the menu, press ⏻ .
5. To go into a submenu, select the desired item by pressing OK on the navigation key ◎ .

- ***Navigation key ◎ can be used to scroll through the menu.***

MENU SUMMARY (SAMPLE)

- **BALANCE**
  - 1 : Check Balance
  - 2 : Top-Up
  - 3 : Virgin Alerts
- **TOP-UP**
- **MESSAGES**
  - 1 : Voicemail
  - 2 : Send New
  - 3 : Text Inbox
  - 4 : Net Alerts
  - 5 : Text Outbox
  - 6 : Filed
  - 7 : Erase Msgs
    - 1 : Text Inbox
    - 2 : Text Outbox
    - 3 : Filed
    - 4 : Net Alerts
  - 8 : Msg Settings
    - 1 : Save sent msg
    - 2 : Default Call Back
    - 3 : Alert
    - 4 : Display Deliv. Ack
    - 5 : Auto Erase
    - 6 : Entry Mode
- **VIRGINXTRAS**
  - 1 : Music
  - 2 : MTV
  - 3 : VH1
  - 4 : Fun
  - 5 : Groups
  - 6 : Entertainment
- **RECENT CALLS**
  - 1 : Outgoing Calls
  - 2 : Incoming Calls
  - 3 : Missed Calls
  - 4 : Call Times
    - 1 : Last Call
    - 2 : All Calls
    - 3 : Accumulate Calls
- **CONTACTS**
  - 1 : Find
    - 1 : By Group
    - 2 : By Name
    - 3 : By Number
  - 2 : Edit Phone Book
    - 1 : Add New Entry
    - 2 : Edit Existing Entry

MENU SUMMARY (SAMPLE)

  - 3 : Edit Group
    - 1 : Add New Group
    - 2 : Change Group Name
    - 3 : Change Group Ringtone
    - 4 : Change Group Color
    - 5 : Clear Group
  - 4 : Speed Dial
  - 5 : My Profile
    - Name
    - My Phone Number
    - Birthday
    - Blood Type
    - Address
    - Home Number
    - E-mail
    - Work Phone Number
    - Memo
    - Set Secret
- **SCHEDULE**
  - 1 : Event
    - 1 : New Event
    - 2 : View Event List
  - 2 : Alarm
- **SETTINGS**
  - 1 : Sounds
    - 1 : Ringtones
    - 2 : Ringtone Mode
    - 3 : Volume
    - 4 : Alert
    - 5 : Tone Length
  - 2 : Display
    - 1 : Animation Setting
    - 2 : Main Display Setting
    - 3 : LCD Setting
    - 4 : Sub LCD Setting
  - 3 : Security
    - 1 : Restrict
    - 2 : Special #s
    - 3 : Clear Contacts
    - 4 : Reset Phone
    - 5 : Change Password
  - 4 : Others
    - 1 : Answer Mode
    - 2 : Active Flip
    - 3 : Auto Retry
    - 4 : Auto Answer
    - 5 : Voice Privacy
    - 6 : Web Idle Time
    - 7 : S/W Version

MENU SUMMARY (SAMPLE)

TOOLS ▶
- 1 : Calculator
- 2 : World Clock
- 3 : Stopwatch
- 4 : Location

VOICE SVC. ▶

1: Voice Memo	
2: Call Answer	1 : On/Off
	2 : Inbox
	3 : Call Speaker
	4 : Wait Time
3: Voice Command	1 : Yes/No
	2 : Wake-Up
	3 : Top Level
	4 : Digit Dial
4: Voice Dial	1 : List
	2 : Add
	3 : Clear All
5: Voice Alert	1 : On/Off
	2 : Record
	3 : Play
	4 : Clear
6: Voice Setting	1 : Untrain All
	2 : Prompt Mode
	3 : Digit Mode
	4 : HFK Mode
	5 : Set Active

BASIC FUNCTIONS

MAKING A CALL

1. Enter the phone number.

2. To place a call, press .

- ***To erase the last entered digits, press*** .
- ***To erase all digits and start again, press and hold*** .
- ***"CALL FAILED" will display if the call did not connect.***
- ***If the line is busy, press*** .

3. To end a call, press .

ANSWERING CALLS

1. To answer a call, press any key except .

NOTE: ***Calls can be automatically answered by activating the AUTO ANSWER function. (Refer to page 70)***

PAUSE FEATURE

Pauses are used for automated systems (i.e., voicemail and calling cards). Insert a pause after a phone number, then enter another group of numbers. The second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.

1. Enter the phone number, then press [PSE].

2. Select the desired pause (Hard Pause or Timed Pause). A "P" will appear after the number to represent the pause.

   STANDBY MENU

STO	FIND	PSE

   PAUSE INPUT:
   1 : HARD PAUSE
   2 : TIMED PAUSE

Standby menu that appears when entering a number.

3. Then enter the second set of numbers.

4. To dial, press . To store, press .

HARD PAUSE: If you enter the pause character (P), the number entered after the pause character will be sent after the dialed number.

SPEAKERPHONE

1. To activate speakerphone in idle, answering and calling modes, press and hold SPK /CLR.

2. After a call the phone returns to normal (Speakerphone off).

ANSWERING MACHINE DISPLAY

Notifies you of unchecked recorded memos in the answering machine inbox and displays the number of stored memos that are recorded in the answering machine inbox. (Refer to page 77 for more information about answering machine.)

To play the recorded voice memos, press OK.

CALLER ID

Identifies caller by displaying that person's phone number. If the caller's name and number are stored in your contacts, the name and number from the memory location are displayed.

NOTE: The Caller ID numbers are saved in the call log.

CALL WAITING

This function notifies you of an incoming call when you are on another call by sounding a beep tone.

1. When you hear the beep, press to answer the call.

2. To switch back to the first caller, press again.

ADJUSTING THE VOLUME

You can adjust the volume in two ways: by using the volume control keys on the side of the cell phone when it is closed, or by pressing 8 1 3 3 when it is open.

Pressing volume control keys:

- During a call : Adjusts earpiece volume.
- In Standby Status : Adjusts Ringtone volume.
- When the phone rings : Adjusts Ringtone volume.

(Refer to page 53 for more detailed instructions.)

LOCK

Locks your phone and prevents unauthorized use. Phone can only be used after inputting the password.

1. To lock the phone, press and hold .

2. To unlock the phone, press then input the password.

NOTE: The default password is the last 4 digits of your phone number.

VIBRATE

Disables the Ringtone and vibrates when an incoming call is received. To enable this function:

1. Press 8 .

2. Select “SOUNDS”, then press 2 .

3. Select “VIBRATE”.

ETIQUETTE MODE

Silences all phone sounds while attending a meeting, a movie, or any other time you do not want your phone to be heard. All phone sounds include the Ringtone, key beeps and notifications. Your phone will vibrate to notify you of an incoming call. To enable this function, press and hold “Etiquette Mode”.

FUNCTIONS DURING A CALL

These menu items are available while you are on a call.

MUTE

Mutes the microphone while you are on a call so the other party cannot hear you if you speak.

1. Press [...] [1] "MUTE".

NOTE: To turn mute off, press [...], then [1] "Unmute" again.

SILENT

Prevents the person you're talking to from hearing DTMF tones when any key is pressed during a call.

1. To activate, press [...] [2 ABC] "SILENT".

2. To deactivate, press [...] [2 ABC] .

SEND MY PHONE#

Enables your phone number to be automatically transmitted to a pager. (Dependent on pager service.)

After calling a pager, when you are asked to enter your number, press [...] [3 DEF] "SEND MY PHONE #".

FUNCTIONS DURING A CALL

MY PROFILE

Enables you to review and edit your profile entered through the contacts entry.
(Refer to page 49 for more details.)

1. Press [...] [4 GHI] "MY PROFILE".

VOICE PRIVACY

Enhances voice privacy during a call.

1. Press [...] [5 JKL] "VOICE PRIVACY".

2. Select "STANDARD" or "ENHANCED" with the navigation key [◉].

NOTE: This feature may not be available on all networks. Please check with your service provider for availability.

LOCATION

Enables your network to locate your current location through Global Positioning System (GPS).
(Refer to page 95 for more details.)

1. Press [...] [6 MNO] "LOCATION".

NOTE: This feature may not be available on all networks. Please check with your service provider for availability.

VIRGIN MOBILE ACCOUNT

You can manage your Virgin Mobile account from your phone. The basic tasks are summarized below. For more information about your Virgin Mobile account, contact Virgin Mobile.

CHECKING YOUR ACCOUNT BALANCE

You can check the amount of money remaining in your Virgin Mobile account.

1. To access these services, press .

2. From the Standby screen, press navigation key up and hold.

TOP-UP YOUR ACCOUNT

You can Top-Up your account over the air.
To Top-Up your account over the air using your phone, you need a credit card registered with Virgin Mobile and service on your phone.

1. Press "TOP-UP" or press "TOP-UP".

2. Select "Credit Card" or "Top-Up Card" with the navigation key , then press to save it.

For more information about your Virgin Mobile account and Virgin Mobile service, visit www.virginmobileusa.com or contact Virgin Mobile at (888) 322-1122.

VIRGIN ALERTS

You may receive alerts from Virgin Mobile which include information about your account balance, service information, and other announcements.
These alerts appear on your screen when the phone is on.

TO VIEW A STORED VIRGIN ALERT

The 10 most recent Virgin Alerts you have received are stored in the Virgin Alerts menu.

1. To view a stored message, press .

2. Highlight the message and press .

3. To close the message, press .

MEMO

Chapter 3

MEMORY FUNCTION

This chapter addresses numerous functions including saving phone numbers to the internal contacts, entering text and accessing call logs.

- Storing Phone Numbers
- Text Input Methods
- Speed Dialing
- Call Logs
- Call Times
- Using Your Contacts

STORING PHONE NUMBERS

The CDM-8500 can store up to 300 contacts.

1. Enter the phone number, including area code, and press [STO].

2. Press 1 "Add New Entry".

3. Select the phone number type by pressing the navigation key up or down (Home, Mobile, Office, Pager, Fax) and press OK to select.

4. Press [EDIT], enter the name for the contact and press OK to store the name. (If you do not want to enter a voice tag to this contact, skip step 5 and proceed to step 6).

5.1 To save with a voice tag for voice activated dialing, scroll the navigation key to the voice dial. It will say "Unassigned". Press the navigation key left or right until the phone number type you want to add the voice tag for in this contact appears (Home, Mobile, Office).

5.2 Press [REC]. "Enter Voice Tag ?" will appear. Press OK.

5.3 Follow the audible voice prompts. You will be asked to say the name, then repeat the name.

6. To confirm your entry and save to your contacts, press OK.

NOTE: "New entry saved" will appear.

TEXT INPUT METHODS

ENTERING CHARACTERS

For convenient entry of memory location names and text messages, your phone offers several text input methods:

Alpha mode : Enter words by repeatedly tapping the corresponding key until the desired character is displayed.
T9™ mode : Tap each corresponding key only once and the phone predicts the word you are entering.
Numeric mode : Only enter numbers.
Symbol mode : Enter symbols like @, #, %.

ALPHA MODE [ABC]

To choose Alpha mode, press or [MODE] then choose [ABC]. The chart below outlines the key presses needed to display each letter or number in this mode.

Key Pad	1 Repetition	2 Repetitions	3 Repetitions	4 Repetitions	5 Repetitions
1	1	.	@	-	'
2ABC	A	B	C	2	...
3DEF	D	E	F	3	...
4GHI	G	H	I	4	...
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

- The cursor automatically moves to the next space in two seconds after character input.
- To erase one letter, press SPK /CLR .
- To erase the entire entry, press and hold SPK /CLR .
- To switch between lowercase to uppercase letters, press .

T9™ PREDICTIVE TEXT MODE [T9™ABC]

To choose T9™ mode, press or [MODE] then choose [T9™ABC]. This mode predicts the words you are entering using a built-in dictionary. With T9™ predictive text input, you press each key only once for each letter. The chart below outlines how to use T9™ text input.

KEY	FUNCTION
Mode	Press to change text input mode: [T9™Abc][123][Sym]. Select [T9™Abc] for predictive text input.
Next	Press to view the next matching word if the underlined word is not the word you intended.
Space	Press once to accept a word and add a space.
Clear	Press once to delete the character to the left of the cursor.
Left, Right	To move cursor.
Switch	To switch between lowercase to uppercase letters:[ABC][Abc] [abc][T9™ABC][T9™Abc][T9™abc].

1. Press each key once for each letter of the word you are writing.

   - To write **John** with the English dictionary selected:

     1. Press 5 once - (for - k)
     2. Press 6 once - (for - km)
     3. Press 4 once - (for - log)
     4. Press 6 once - (for - john)

NOTE: The display shows for each key pressed.

2. Press until the correct word is displayed.
3. Select the correct word and press .

TEXT INPUT METHODS

NUMERIC MODE [123]

Numeric mode allows you to add a number to your entry/message. To select numeric mode, press or [MODE] then select [123].

SYMBOL MODE [SYM]

Selecting symbol mode allows you to add various symbols to your entry. Whether you are adding an e-mail address to your contacts or sending an expressive message, symbols make these entries easier.

To select symbol mode, press or [MODE] then choose [SYM].

The symbols will appear on the display.

The corresponding key number for that symbol will appear as well. You can press the key to select the symbol or use the navigation key to highlight the symbol, then press OK.

To move to the next screen of symbols press navigation key .

SPEED DIALING

ONE-TOUCH/TWO-TOUCH DIALING

Ideal for frequently dialed numbers, this feature allows contact entries to be dialed via the keypad with only one or two key presses.

ONE-TOUCH DIALING:

1-9 : Press the corresponding memory number and hold for more than 1 second.

TWO-TOUCH DIALING:

10-20 : Press the first digit and second digits of the memory number short and long respectively.

- If no phone number is stored in the location entered, “There is no number” will appear on the screen.
- If a phone number is stored in secret, you must enter the password to make a call.

(Refer to page 48 for information about saving a phone number in a speed dial location.)

CALL LOGS

The CDM-8500 keeps a log of the 10 most recently missed, answered (incoming) and dialed (outgoing) calls. Log information includes the phone number and the date and time of the call.

OUTGOING CALLS

1. To view the 10 most recently dialed numbers, press .
   The 4 most recent calls will be listed first.

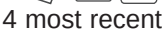
2. Use the navigation key to scroll through the list of dialed calls, then select the desired number.
   To view call details, press .

   - Detail information includes the phone number, its log number, time and date of the call.

3. To dial the number, press .
   To delete the number, press .
   To save the number, press .
   You can add a prefix or simply store the number as is.

CALL LOGS

INCOMING CALLS

1. To view the 10 most recently answered calls, press  .
   The 4 most recent calls will be listed first.

2. Use the navigation key to scroll through the list of answered calls, then select the desired number.
   To view call details, press .

   - Detail information includes the phone number, its log number, time and date of the call.

3. To dial the number, press .
   To delete the number, press .
   To save the number, press .
   You can add a prefix or simply store the number as is.

CALL LOGS

MISSED CALLS

1. To view the 10 most recently missed calls, press .
   The 4 most recent calls will be listed first.

2. Use the navigation key to scroll through the list of missed calls, then select the desired number. To view call details, press .

   - Detail information includes the phone number, its log number, time and date of the call.

3. To dial the number, press .
   To delete the number, press .
   To save the number, press .
   You can add a prefix or simply store the number as is.

CALL TIMES

LAST CALL

To display the total time of your last call:

1. Press .

ALL CALLS

To display the total time of all your calls:

1. Press .

ACCUMULATE CALLS

To display talk time of accumulated calls:

1. Press .

RECALLING BY GROUP

1. Press .

2. Select one of the options (Family, Friends, Work, Etc, All) with the navigation key then press OK.

3. All the entries under the group will appear. You can delete the entry by pressing or view the entry by pressing OK when it is selected.

4. To call the selected number, press icon, select which number for the entry you want to call and press OK.

RECALLING BY NAME

1. Press .

2. Enter a name or partial name then press OK to display names in the contacts using that name or characters in alphabetical order, regardless of letter case.
   (Refer to page 35 about the usage of Alpha Editor.)

3. All matched entries appear.
   Delete an entry by pressing or view an entry by pressing OK.

4. To call one of the numbers for the selected entry, select the number to dial and press .

USING YOUR CONTACTS

RECALLING BY PHONE NUMBER

Recall saved phone numbers by searching for the location number. Search results include the name and phone number saved to that location.

1. Press .

2. Enter the phone number or partial phone number and press OK.
   All numbers matching the entered numbers will appear. Use the navigation key to select the desired numbers and press OK.

3. To dial the selected number, scroll to that number in the entry and press .

EDITING YOUR CONTACTS

You can add, edit, or erase phone numbers in the contacts.

ADD NEW ENTRY

1. To add a new entry to the contacts, press .

2. Use the navigation key to move to a contacts field entry and enter the required information.

3. To save it press OK. To return to the previous page, press .
   (Refer to page 34 for complete add new entry instructions.)

EDIT EXISTING ENTRY

1. To edit an existing entry, press 6 MNO 2 ABC 2 ABC .
   The 5 entry groups appear – Family, Friends, Work, Etc., All.

2. Use the navigation key to select one of the groups and press OK.

3. Select an entry under the group. To view or edit the entry, press OK. To delete the entry, press .

EDIT GROUP

Adds, changes or deletes a group.

ADD NEW GROUP

1. To add a new group, press 6 MNO 3 DEF 1 .
   A maximum of 7 groups is allowed.

2. Input a new group name.

3. To save, press OK.

CHANGE GROUP NAME

1. To change a group name, press 6 MNO 3 DEF 2 ABC .

2. Use the navigation key to select an existing group name and press OK.

3. Input a new name.

4. To save it, press OK.

CHANGE GROUP RINGTONE

1. To change the Ringtone for a group, press 6 MNO 3 DEF 3 DEF .

2. Select the group whose Ringtone is to be changed and press OK.

3. Use the navigation key to select a Ringtone.

4. To save it, press OK.

CHANGE GROUP COLOR

1. To change a group color, press 6 MNO 3 DEF 4 GHI .

2. Select the group whose color is to be changed and press OK.

3. Use the navigation key to select one of the group colors.

4. To save it, press OK.

CLEAR GROUP

1. To delete an existing group, press [menu] [6 MNO] [3 DEF] [5 JKL] .
2. Use the navigation key to select the group to be deleted and press [OK].
3. If a phone number already exists in the location, press [menu], then [OK] to delete it.
4. To reconfirm, press [OK].

SPEED DIAL

Links a phone number of contacts entry to a location number and enables you to make a call simply by pressing its location number in the idle mode.

1. Press [menu] [6 MNO] [4 GHI] .
2. To link a phone number to the location, select the location then press [OK]. If a phone number already exists in the location, press [menu] then the navigation key to delete it.
3. Select the group where the phone number is saved, then press [OK].
4. Select the entry, then press [OK].
5. Select the phone number, then press [OK].

MY PROFILE

Saves and edits your personal information.

1. To review and edit your personal information (Name, My phone number, Birthday, Blood Type, Address, Home Number, E-Mail, Work Number, Memo, Set Secret), press [menu] [6 MNO] [5 JKL] .
2. To edit a selected item, press [menu].
3. To confirm and save, press [OK].

: Name.
: My Phone Number.
: Birthday.
: Blood Type.
: Address.
: Home Number.
: E-mail.
: Work Pone Number.
: Memo.
: Set Secret.

MEMO

Chapter 4

SETTINGS

This chapter addresses customizing your phone by adjusting Backlighting, Volume, Ringtones and other user-friendly features.

- Settings
- VR Mode
- VS Menu

SOUNDS

You can choose different Ringtones, Ringtone Mode, Volume, Alert and Tone length.

RINGTONES

Select Ringtones to set a pre-programmed tone or My Ringtones to set up a downloaded Ringtone.

RINGTONES

1. Press .
2. Select a Ringtone from the list.
3. To confirm, press .

RINGTONE MODE

Alerts you to incoming calls in the following modes:

1. Press .
2. Select one of the following options with the navigation key .
   - Ringtone
   - Vibrate
   - Ringtone after Vibrate – The Ringtone sounds after vibration.
   - Silent – Mutes the Ringtone
3. To confirm, press .

VOLUME

Controls the volume of the following items.
The volume can be adjusted to 5 levels.

RINGTONE

Controls the Ringtone volume.

1. Press .
2. Adjust the Ringtone volume with the navigation key .
3. To save, press .

KEY

Controls the keypad tone volume.

1. Press .
2. Adjust the keypad tone volume with the navigation key .
3. To save, press .

VOICE CALL

Controls the earpiece volume

1. Press .
2. Adjust the earpiece volume with the navigation key .
3. To save, press .

ALERT

Sounds an alert to any change occurring on the phone.

MINUTE ALERT
Sounds an alert every minute of a phone call.

1. Press [Menu] [8 TUV] [1] [4 GHI] [1] .

2. Select “OFF” or “ON” with the navigation key, then press [OK] to save it.

CONNECT ALERT
Notifies you that a call has been successfully placed.

1. Press [Menu] [8 TUV] [1] [4 GHI] [2 ABC] .

2. Select “OFF” or “ON” with the navigation key, then press [OK] to save it.

FADE ALERT
Sounds an alert when entering an area where calls cannot be made due to weak signal strength. The alert sounds in made when the call is disconnected.

1. Press [Menu] [8 TUV] [1] [4 GHI] [3 DEF] .

2. Select “OFF” or “ON” with the navigation key, then press [OK] to save it.

LOW SIGNAL ALERT
Sounds an alert when you encounter low signal strength during a call and a standby mode.

1. Press [Menu] [8 TUV] [1] [4 GHI] [4 GHI] .

2. Select “OFF” or “ON” with the navigation key, then press [OK] to save it.

TONE LENGTH

Adjusts the Ringtone length.

1. Press [Menu] [8 TUV] [1] [5 JKL] .

2. Select “Normal” or “Long” with the navigation key, then press [OK] to save it.

DISPLAY

Customizes and personalizes the display.

ANIMATION SETTING

Selects your favorite LCD display in the following modes:

IDLE DISPLAY

1. Press .

2. Select an animation from the Animation List to use in the idle mode by using the navigation key .

3. To save, press .

MAIN DISPLAY SETTING

Selects your favorite LCD display in the following modes.

GREETING INPUT

To edit the greeting, press the navigation key .

1. Press .

2. To edit the greeting, press .

3. Input your personal greeting using the Alpha Editor.

4. To save, press .

IDLE CLOCK

To select an LCD clock display:

1. Press .

2. Select one of the following options:

- Digital Clock
- Analog Clock
- Greeting Clock
- Animation+Clock

3. To save, press .

LCD SETTING

Controls backlight and LCD contrast for better view and more efficient use.

BACKLIGHTING

Backlights the display and keypad for easy viewing in dark places.

1. Press .

2. Select one of the following options: 5 secs, 10 secs, 20 secs, Off.

- ***Off: Turns the backlight off***
- ***5 secs, 10 secs, 20 secs : Backlight remains on for 5, 10, or 20 seconds after touching the keypad.***

3. To save, press .

SETTINGS

CONTRAST

The LCD display contrast can be adjusted to 5 levels.

1. Press .

2. Use the navigation key to adjust the LCD contrast for better view.

3. To save, press .

LCD COLOR

To select an LCD display backlight color.

1. Press .

2. Select one of the following options: Automatic, Green, Yellow, Blue, Deep Green, Purple, White.

3. To save, press .

When Automatic is selected, the LCD backlight color will change to a different color (one of the seven colors) everytime you open and close the phone.

NOTE: The keypad backlight color does not change. It is always blue.

SUB LCD SETTING

Controls backlight and Sub LCD contrast for better view and more efficient use.

SUB LCD CLOCK

To select an Sub LCD clock display:

1. Press MENU 8 2 4 1.

2. Select one of the following options: Analog Clock, Digital Clock.

3. To save, press OK.

SUB LCD CONTRAST

The Sub LCD display contrast can be controlled in 5 levels.

1. Press MENU 8 2 4 2.

2. Use the navigation key to adjust the Sub LCD contrast for better view.

3. To save, press OK.

SECURITY

Prevents others from using the phone without permission and allows access to security features only after inputting your password.

RESTRICT

Enables you to restrict certain features with the password. You must unlock the phone to use the features.

AUTOMATIC LOCK

Prevents others from using your phone without permission. When locked, the menu cannot be accessed without your password.

1. Press MENU 8 3 then enter “PASSWORD.”

2. Press 1 1 then select “Off”, “Lock Now” or “Lock On Power Up”.

- ***Off : Do not lock the phone.***
- ***Lock Now : Lock the phone now.***
- ***Lock On Power Up : Lock the phone whenever it is turned on.***

3. To save, press OK.

NOTE: The default password is the last 4 digits of your phone number.

INCOMING CALL

Blocks all incoming calls, but allows outgoing calls to be placed.

1. Press then enter “PASSWORD.”

2. Press then select “Allow” or “Restrict” with the navigation key .

- ***Restrict : Restrict an incoming call.***
- ***Allow : Allow an incoming call***

3. To save, press .

OUTGOING CALL

Blocks all outgoing calls (except emergency calls) from being placed, but allows incoming calls to be answered.

1. Press then enter “PASSWORD.”

2. Press then select “Allow” or “Restrict” with the navigation key .

- ***Restrict : Restrict an outgoing call.***
- ***Allow : Allow an outgoing call.***

3. To save, press .

INCOMING CALL HISTORY

1. Press then enter “PASSWORD.”

2. Press then select “Allow” or “Restrict” with the navigation key .

- ***Restrict : Restrict access to incoming call history.***
- ***Allow : Allow access to incoming call history.***

3. To save, press .

OUTGOING CALL HISTORY

1. Press   then enter “PASSWORD.”

2. Press then select “Allow” or “Restrict” with the navigation key .

- ***Restrict : Restrict access to outgoing call history.***
- ***Allow : Allow access to outgoing call history.***

3. To save, press .

MENU

Blocks access to the menu to prevent any changes.

1. Press then enter “PASSWORD.”

2. Press then select “Allow” or “Restrict” with the navigation key .

- ***Restrict : Restrict access to the menu.***
- ***Allow : Allow access to the menu.***

3. To save, press .

CONTACTS

Blocks access to, and protects data in your contacts.

1. Press [Menu] [8 TUV] [3 DEF] then enter "PASSWORD."

2. Press [1] [7 PQRS] then select "Allow" or "Restrict" with the navigation key [NAV].

- ***Restrict : Restrict access to the contacts.***
- ***Allow : Allow access to the contacts.***

3. To save, press [OK].

DATA CALL

Restricts connecting to VirginXtras and Top-Up.

1. Press [Menu] [8 TUV] [3 DEF] then enter "PASSWORD."

2. Press [1] [8 TUV] then select "Allow" or "Restrict" with the navigation key [NAV].

- ***Restrict : Restricts connecting a VirginXtras or Top-Up call.***
- ***Allow : Allows connecting a VirginXtras or Top-Up call.***

3. To save, press [OK].

900#S

Restricts calling 900 dial service numbers.

1. Press [Menu] [8 TUV] [3 DEF] then enter "PASSWORD."

2. Press [1] [9 WXYZ] then select "Allow" or "Restrict" with the navigation key [NAV].

- ***Restrict : Restrict a 900-dial service.***
- ***Allow : Allow a 900-dial service.***

3. To save, press [OK].

NOTE: "This phone is restricted" appears on the display when you attempt to make a restricted call.

LONG DISTANCE

Restricts calling long distance numbers – the phone is limited to calling numbers within the area.

1. Press [Menu] [8 TUV] [3 DEF] then enter "PASSWORD."

2. Press [1] [0 OPER] then select "Allow" or "Restrict" with the navigation key [NAV].

- ***Restrict : Restrict a long distance call.***
- ***Allow : Allow a long distance call.***

3. To save, press [OK].

NOTE: A phone number over 8 digits is restricted.

SPECIAL #'s

Stores 3 phone numbers that are allowed to be dialed even in lock mode.

1. Press then enter "PASSWORD."
2. Press then select one from three blanks with the navigation key .
3. Press and input a phone number
4. Press again to save it.

CLEAR CONTACTS

Clears all contacts entries.

1. Press then enter "PASSWORD."
2. Press .
3. Select "Yes" or "No" with the navigation key . Press .

RESET PHONE

Resets phone to default settings.

1. Press then enter "PASSWORD."
2. Press .
3. Select "Yes" or "No" with the navigation key . Press .

- ***When you select "Yes", the powering off animation appears and the phone will automatically reboot.***

CHANGE PASSWORD

Changes password.

1. Press then enter "PASSWORD."
2. Press .
3. Enter a new password, then press .
4. Enter the new password again, then press .

OTHERS

ANSWER MODE

Selects an Answer mode.

1. Press .

2. Select “Any Key” or “Send Key” with the navigation key .

- ***Any Key : Press any key to answer an incoming call except*** ***,*** ***, and*** ***.***
- ***Send Key : Press only*** ***to answer a call.***

3. To save, press .

ACTIVE FLIP

Selects an Active Flip Answer mode as follows.

1. Press .

2. Select “On” or “Off” with the navigation key .

3. To save, press .

NOTE: When Active Flip On is selected, an incoming phone call can be answered simply by opening the phone. When Active Flip Off is selected, you will need to open the phone and follow the Answer mode you have selected.

AUTO RETRY

Automatically retries a call up to 5 times after a set time interval.

RETRY TIME

1. Press .

2. Select a time interval option (Off, 3, 5, 7, 10 seconds) with the navigation key .

3. To save, press .

REPEAT

1. Press .

2. Select one of the options (1 time, 3 times, 5 times) with the navigation key .

3. To save, press .

AUTO ANSWER

Automatically answers a call after a preset number of rings. An ideal setting for the hands-free car kit.

1. Press [Menu] [8 TUV] [4 GHI] [4 GHI].

2. Select one from the following items (off, 5, 10, 18 seconds) with the navigation key [Navigation].

NOTE: ***This function will not be activated when you select Vibrate, Silent, or Ringtone after Vibrate as a Ringtone mode.***

3. To save, press [OK].

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

1. Press [Menu] [8 TUV] [4 GHI] [5 JKL].

2. Select “Standard” or “Enhanced”, if available.

- ***Enhanced : Makes it more difficult to wire tap.***

3. To save, press [OK].

NOTE: ***This feature may not be available on all networks. Please check with your service provider for availability.***

WEB IDLE TIME

This function disconnects your phone from a network when there is no key input for a certain time period.

1. Press [Menu] [8 TUV] [4 GHI] [6 MNO] and set the web idle timer.

2. Use the navigation key to set the web idle timer or press digit keys to enter the time on your own.

S/W VERSION

Displays the version of your phone.

1. Press [Menu] [8 TUV] [4 GHI] [7 PQRS].

2. The version of the software and hardware appears.

VR MODE

Voice Recognition (VR) enables you to place calls and record voice memos using your voice.

1. Press and hold until your phone turns to VR mode.

2. When the phone turns to VR mode, the screen on the right appears.

NOTE: Depending on the prompt mode – expert or beginner -- you will hear a different set of prompts as listed below. The second prompt will automatically play if nothing is said.

Beginner Mode
- ***1st : "Main Menu"***
- ***2nd : "Speak a name to call, or say dial, redial, voice memo, phonebook or cancel".***

Expert Mode
- ***1st : "beep"***
- ***2nd : "Main Menu"***

Once you say one of the following options, you will go through each of the procedures (name, dial, redial, voice memo, contacts, cancel).

NAME

1. Press and hold and wait until your phone turns to VR mode.

2. In VR mode, say a recorded name or tag stored in the contacts, and the name and number will appear on the display and you will hear "Calling <name>." (Refer to page 82 for additional details.)

VR MODE

DIAL

1. Press and hold until your phone turns to VR mode.

2. Say "Dial" and the display on the right will appear.

Depending on the prompt mode, expert or beginner, you will hear a different set of prompts that follows. You can hear the second prompt when nothing is said.

3. Press or say the digits of the phone number.

4. After entering the entire number, say "Call".

NOTE:
Beginner mode
- ***1st prompt :"Digit menu"***
- ***2nd prompt :"Say digits or verify, cancel, clear, or call".***

Expert mode
- ***1st prompt :"doo-doo" (a sequence of high and low tones).***
- ***2nd prompt :"Digit menu"***

REDIAL

1. Press and hold until your phone turns to VR mode.

2. To call the last dialed number, say "Redial".

VOICE MEMO

This feature is the same as on page 76, except you must use the phone to access the menu not your voice.

1. Press and hold until your phone turns to VR mode.

2. Say “Voice Memo”. Instructions will appear and you will hear “Please record it at the tone”.

3. To stop recording, press OK.

NOTE: Press to pause, then press OK to resume.

4. After recording a voice memo you can review, re-record or save.

PHONEBOOK

1. Press and hold until your phone turns to VR mode.

2. Say “Phonebook”.

Contact entries with voice tags will appear and each voice tag will play.

NOTE: To call a phone number with an attached voice tag, say “Yes” while the voice tag plays.

CANCEL

1. Press and hold until your phone turns to VR mode.

To exit VR mode or return to the standby mode, say “Cancel.”

VOICE MEMO

RECORD VOICE MEMO

1. To start VS menu, press ··· 0.
2. To enter the voice memo menu, press 1.
3. When you press 1 to record a voice memo, instructions will appear and you will hear “Please record it at the tone”.
4. To stop recording a memo, press OK.

NOTE: Press ··· to pause, then press OK to resume.

5. After recording a voice memo you can Review, Re-record or Save.

PLAY VOICE MEMO

1. To start VS menu, press ··· 0.
2. To enter the voice memo menu, press 1.
3. To play the voice memo menu, press 2, select the desiring voice memo, press OK.

NOTE: Edit Key - To edit the voice memo title.
CLR Key - To delete the selected voice memo.

CLEAR ALL

1. To start VS menu, press ··· 0.
2. To enter the voice memo menu, press 1.
3. To delete a voice memo, press 3.

CALL ANSWER

Sets and operates answering machine.

1. Press ··· 0.
2. Press 2.
3. Select one of the following options with the navigation key, then press OK.

ON/OFF: Turns the Call Answer Mode on/off.
INBOX: Plays or erases a recorded memo.
CALL SPEAKER ON (OFF) : You can(not) hear the caller’s voice being recorded by answering machine.
WAIT TIME : No ringer, 5s, 10s, 18s. Answering machine will answer the call after a specific time.

ICONS IN THE STORED MEMO LIST
☑ : Unchecked recorded memo in answering machine inbox.
☐ : A answering machine message that you have already checked.

NOTE:
RECORDING LIMITATION :
You have a limit of 10 voice memos including those in answering machine inbox and voice memo menu. Each voice memo has the time limit of 60 seconds.

Voice memo plays the preprogrammed greeting. This cannot be changed.

VOICE COMMAND

Trains the VR with the following categories of control words:

YES/NO

1. Press .

2. Press .

3. Select one of the following options with the navigation key , then press .

LIST WORDS : Displays the list of control words in the Yes/No set. Select a control word from the list then press . Either Train, Untrain, or View its status. To Train a word, press and follow the voice prompts.
TRAIN ALL : Train Yes/No set to recognize your voice.
UNTRAIN ALL : Untrain Yes/No set not to recognize trained control words.

WAKE-UP

Use the Wake-Up to Train or Untrain the VR with the control word, Wake-Up.

1. Press .

2. Press .

3. Select one of the following options with the navigation key , then press .

LIST WORDS : Displays the list of control words in the Wake-Up set. Select a control word from the list then press . Either Train, Untrain, or View its status. To Train a word, press and follow the voice prompts.
TRAIN ALL : Train Wake-Up set to recognize your voice.
UNTRAIN ALL : Untrain Wake-Up set not to recognize trained control words.

TOP LEVEL

Use the Top Level to Train or Untrain the VR with your control words. (Dial, Redial, Voice Memo, Phonebook, Cancel).

1. Press ··· 0.
2. Press 3 3.
3. Select one of the following options with the navigation key, then press OK.

LIST WORDS : Displays the list of control words in the Top Level set. Select a control word from the list then press OK. Either Train, Untrain, or View its status. To Train a word, press 1 and follow the voice prompts.
TRAIN ALL : Train Top Level set to recognize your voice.
UNTRAIN ALL : Untrain Top Level set not to recognize trained control words.

DIGIT DIAL

Use the Digit Dial to Train or Untrain the VR with the control words (1 to 9, Zero, Oh, Verify, Clear, Call).

1. Press ··· 0.
2. Press 3 4.
3. Select one of the following options with the navigation key, then press OK.

LIST WORDS 1, 2 : Displays the list of control words in the Digit Dial set. Select a control word from the list then press OK. Either Train, Untrain, or View its status. To Train a word, press 1 and follow the voice prompts.
TRAIN ALL : Train Digit Dial set to recognize your voice.
UNTRAIN ALL : Untrain Digit Dial set not to recognize trained control words.

VOICE DIAL

Lists, adds and erases voice tags for a contact entry.

LIST

1. Press ··· 0.
2. To list contact entries with attached voice tags, press 4 1.
3. Select one with the navigation key, then press OK.

EDIT : Retrain / Voice Setting / Clear
PLAY : Play voice tag.

4. Press OK to play a voice tag or ··· to edit an existing voice tag.
5. Select one of the following options, then press OK.

1) Retrain: "Retrain Voice Name?" appears. Press OK , then say a name.
2) Voice Setting: "Change?" appears. Press OK , select a phone number, then press OK again.
3) Clear: "Removing Voice Names Proceed?" appears. Press OK .

ADD

1. Press ··· 0.
2. To add a voice tag to a contact entry, press 4 2.
3. Select one group with the navigation key, then press OK.
4. Select a phone number with the navigation key, then press OK.
5. To add a voice tag to the number, say the name.

CLEAR ALL

1. Press ··· 0.
2. To erase all voice tags in the list, press 4 3.
3. "Removing all voice tags proceed?" appears.
4. Press OK and you will see a message.

OK : Proceed to erase all the voice tags.
CNCL : Return to the previous page.

5. To clear all voice tags, press OK.

VOICE ALERT

Sets the voice alert service.

ON/OFF

1. Press MENU 0.
2. Press 5 1.
3. Select “On” or “Off” with the navigation key, then press OK.

RECORD

1. Press MENU 0.
2. Press 5 2.
3. Record voice alert.

PLAY

1. Press MENU 0.
2. Press 5 3.
3. Confirm voice alert.

CLEAR

1. Press MENU 0.
2. Press 5 4.
3. Select “Yes” or “No” with the navigation key, then press OK.

VOICE SETTING

Customizes the voice service menu.

UNTRAIN ALL

1. Press MENU 0.
2. Press 6 1.
3. Select “Yes” or “No” with the navigation key, then press OK.

PROMPT MODE

Use the prompt mode to select either Beginner or Expert mode. The Expert mode consists of shorter texts and just beeps as opposed to the Beginner mode that gives full instructions.

1. Press MENU 0.
2. Press 6 2.
3. Select Beginner/Expert with the navigation key. Press OK.

<Beginner mode>
1st prompt : “Main menu” followed by a short beep.
2nd prompt : “Speak a name to call, or say Dial, Redial, Voice Memo, Phonebook, or Cancel”, followed by a short beep.

<Expert mode>
1st prompt : A sequence of high and low tones.
2nd prompt : “Main menu”.

NOTE: The VR times out and the phone returns to the standby mode after the 1st and 2nd prompts are heard and nothing is said.

DIGIT MODE

Use the digit mode to select one of the following options ; echo, beep, echo+beep.

1. Press .

2. Press 6 MNO 3 DEF .

3. Select one option with the navigation key , then press .

ECHO: Digit echoes back when entered.
BEEP: Digit beeps when entered.
ECHO + BEEP: Digit echoes and beeps when entered.

HANDS-FREE CAR KIT MODE

With the Hands-Free Car Kit (HFK) function, you can activate and utilize the VR feature when the phone is in HFK mode.

1. Press .

2. Press 6 MNO 4 GHI .

3. Select “Off” or “On” with the navigation key , then press .

NOTE: Once you say “Wake-Up” and the phone recognizes your voice, you will hear a beep. The second time you say “Wake-Up”, your phone turns to VR mode.

SET ACTIVE

1. Press .

2. Press 6 MNO 5 JKL .

3. Select “Send Key” or “Active Flip” with the navigation key , then press .

MEMO

Chapter 5

SUPPLEMENTARY FUNCTIONS

This chapter addresses supplemental functions including the schedule, calculator, clock and stopwatch features.

- Schedule
- Calculator
- World Clock
- Stopwatch
- Location

SCHEDULE

Reminds you of a previously scheduled event or anniversary with an alarm.

EVENT

1. To display a calendar, press [MENU] [7 PQRS] [1] [1] .

2. Use the navigation key to choose a date in the calendar, then press [OK].

- ***Day to Day movement: Press the navigation key left and right.***
- ***Week to Week movement: Press the navigation key down and up.***

3.1. To set a time for an event, press [1] .

- ***Choose one of the following in the first line (On time, 10 Min before, 30 Min before, 1 Hour before, No alarm)***
- ***Change the date and time in the second line by moving to year, month, day, time input with the navigation key .***

3.2. To set a melody for the event, press [2 ABC] .

3.3. To set a message for the event, press [3 DEF] .

4. Press [OK] to save it or [CLR] to return to the calendar.

5. “Save complete” appears. When you return to the calendar the day will be highlighted.

SCHEDULE

ALARM

1. To display three alarm entries, press [MENU] [7 PQRS] [2 ABC] .

2. Select one of the entries with the navigation key .

3. To edit the existing alarm or set a new alarm, press [OK].
   To delete the existing one, press [CLR].

4.1. To set a time, press [1] .

- ***Choose an alarm frequency. (Once, Daily, Weekly, Monthly, Yearly) with the Navigation key .***
  To save, press [CLR].

4.2. To set a melody, press [2 ABC] .
Select one of the entries, then press [OK] .

4.3. To set a message, press [3 DEF] .

4.4. To set a snooze, press [4 GHI] .
Select one of the entries, then press [OK] .

NOTE: The alarm will not snooze if it is stopped within a minute, but it will snooze in a minute if it is not stopped.

CALCULATOR

CALCULATOR

Allows you to use the CDM-8500 as a calculator to perform basic mathematic functions (addition, subtraction, multiplication, division).

1. Press ··· 9WXYZ then 1 for calculator.

2. Use the keypad to enter the numbers to be calculated.

3. Follow the instructions below to calculate (8*6)/4-2.5

   - Input 8
     Move the navigation key left
     Input 6 and press the navigation key
     Move it right
     Input 4 and press the navigation key
     Move it down
     Input 2 and press *# to input(.).
     Press 5, then OK.

4. To reset, press ···.

NOTE: ***1. Up to 10 integer digits and up to 2 decimals can be displayed. If the calculated result has more than 10 digits, the result is displayed in 10 digit logarithm.***
2. There is no (-) sign. To express a negative number, use '0-value'.

WORLD CLOCK

WORLD CLOCK

Displays the time in a specific pre-programmed city.

1. Press ··· 9WXYZ then 2ABC for world clock.

2. Select a city with the navigation key.

3. The world map appears with the city, its date and time.
   Select another city using the navigation key.

4. Press ·· to return to the Tools Menu.

STOPWATCH

STOPWATCH

Allows you to use your phone as a stopwatch.
The stopwatch displays time in hours, minutes, seconds, and 1/100 of a second.

1. Press then for stopwatch.

2. To measure a time period.

   - To start the stopwatch, press .
   - To pause it, press .
   - To reset it, press .
   - Press to resume it or to return to the previous page.

3. To measure more than one timed event:

   - ***To start, press .***
   - ***To stop a time period and continue measuring another one, press .***
   - ***To stop the second and continue measuring a third one, press .***
   - ***Keep repeating the above to measure up to 6 time periods.***
   - ***Press to stop it and to view the results.***
   - ***Press or to return to the stopwatch.***
   - ***To reset it, press .***

LOCATION

SETTINGS

To select whether or not you allow the network system to detect your position.

1. Press .

2. Select “Location On” or “911 Only” with the navigation key .

   - ***911 Only : Your location will be hidden from network and application except 911.***
   - ***Location On : Your location is now available to the network.***

MEMO

Chapter 6

VOICEMAIL AND TEXT MESSAGES

This chapter addresses checking voicemail messages, as well as sending and receiving text messages.

- Two-Way Text Messaging
- Checking Messages
- Sending Text Messages
- Text Inbox
- Net Alerts
- Text Outbox
- Filed
- Erase Messages
- Message Settings

TWO-WAY TEXT MESSAGING

Your CDM-8500 features Two-Way Short Message Service (SMS). This feature sends and receives text messages through your phone. Voicemail notification is also supported.

MESSAGE INDICATORS

The following symbols indicate the status of a message received by your phone. These symbols appear for voicemail and text messages.

: Text Message

: Voice + Text Mail Message

: Voicemail Message

RECEIVED MESSAGE NOTIFICATION

When your phone receives a message, the screen displays the number of new text messages and voicemail messages.

1. To display the received message, or to check the received voicemail message, press .

CHECKING MESSAGES

CHECKING RECEIVED VOICEMAIL MESSAGES

1. Press , then press to access your voice mailbox.

CHECKING RECEIVED TEXT MESSAGES

1. Press , then press "Text Inbox".

2. Highlight the message you want to view and press . The text message is displayed.

3. To view the Text Inbox message menu, press then you can Reply, Erase, Forward, Save, Save Address, Lock or Unlock the message.

SENDING NEW TEXT MESSAGES

1. Press ⋯ then press 2 ABC "Send New".
2. Input phone number, then press OK.
3. Input the text message, then press OK to display the Send New menu.

SEND

1. To send the text message, press ↘ or 1 "Send".

NOTE: ***If the message failed to reach the other party, the display will read "Delivery Failed. Retry in 3 mins?". Press ⋯ [YES] to have the phone automatically send the message again.***

EDIT RECIPIENT

1. To change the recipient, press 2 ABC "Edit Recipient".
2. Input the phone number, then press OK.

EDIT MESSAGE

1. To change the text message, press 3 DEF "Edit Message".
2. Input text message, then press OK.

CALL BACK

1. To change the call back number, press 4 GHI "Call Back".
2. Input call back number, then press OK.

SAVE

1. To save the text message, press 5 JKL "Save".

REQUEST DELIVERY ACKNOWLEDGEMENT

1. To be notified that the recipient received your message, press 6 MNO "Request Deliv. Ack".

TEXT INBOX MENU

To enter the Text Inbox menu, follow the procedures for checking received text messages on page 99.

REPLY

1. To reply to the text message, press 1 "Reply".

2. Enter your message, then press OK.

ERASE

1. To erase the text message, press 2 ABC "Erase".

2. To erase the message from your Text Inbox, press ⋯.

FORWARD

1. To forward the text message, press 3 DEF "Forward".

2. Input the phone number of the person you will send the message, then press OK.

3. Input any text message to go along with the forwarded message, then press OK.

SAVE

1. To save the text message in your phone, press 4 GHI "Save".

SAVE ADDRESS

1. To save the call back number from the text message, press 5 JKL "Save Address".

2. To save the call back number into a memory location, follow the procedures for storing phone numbers on page 34.

LOCK & UNLOCK

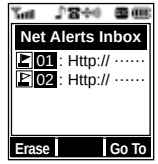
1. To lock or unlock the text message, press 6 MNO "Lock & Unlock".

2. Select Lock to lock the message or Unlock to unlock the message, then press OK.

NET ALERTS

NET ALERTS

1. To enter the Net Alerts menu, press ⋯ then 4 GHI "Net Alerts".



2. Select the Go To, then press ⋯ . Select the erase message, then press ⋯ . The text message will be displayed.

- ***[ ] : Read Message.***
- ***[ ] : Unread Message.***
- ***Erase : Erase Selected Message.***

TEXT OUTBOX

TEXT OUTBOX MENU

1. To enter the Text Outbox menu, press ⋯ then 5 JKL "Text Outbox".

2. Select the stored message then press ⋯. The text message will be displayed.

3. To enter the Text Outbox menu, press ⋯ , then you can Resend, Erase, Send To, Save, and Display the message state.

RESEND

1. To send the message again, press 1 "Resend".

SEND TO

1. To send the message to the other person, press 2 ABC "Send To".

2. Input the phone number, then press OK.

3. Modify the message, then press OK to display the "Send New" menu.

ERASE

1. To erase the message, press 3 DEF "Erase".

2. Select "Yes" or "No" with ⋯ or ⋯ .

TEXT OUTBOX

SAVE ADDRESS

1. To save the call back number as a contact, press [OPTS] scroll down, select “Save Address” and press OK.

2. To save the call back number into a memory location, follow the procedures for storing phone numbers on page 34.

SAVE

1. To save the message, press 5JKL “Save”.

2. Press OK.

LOCK & UNLOCK

1. To lock or unlock the text message, press 6MNO “Lock & Unlock”.

2. Select Lock to lock the message or Unlock to unlock the message, then press OK.

STATE

1. To display the state of the sent message, press 7PQRS “State”.

FILED

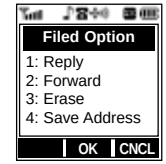
FILED

Manages saved messages from the Text Inbox/ Text Outbox.

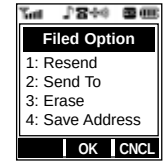
1. Press and 6MNO.
   Select a text message with the navigation key.
   Press .

2. The text message appears.
   Press to display [OPTS].

3. If the text message is saved from “Text Inbox” menu, this screen will be displayed.



If the text message is saved from “Text Outbox ” menu, this screen will be displayed.



4. Select one by pressing OK.

ERASE MESSAGES

ERASE MESSAGES

1. Press and 7 PQRS "Erase Msgs".

2.1. To erase messages in the Text Inbox, press 1 .

NOTE: Select "Entire Inbox" or "Old Inbox".

2.2. To erase messages in the Text Outbox, press 2 ABC .

2.3. To erase messages in the Filed, press 3 DEF .

2.4. To erase messages in the Net Alerts, press 4 GHI .

3. Select "Yes" by pressing .
   Select "No" by pressing .

MESSAGE SETTINGS

MESSAGE SETTINGS MENU

1. To enter the Message Settings menu, press then 8 TUV "Msg Settings".

SAVE SENT MESSAGE

1. Press 1 "Save Sent Msg".

2. Select (No/Yes/Prompt) using the navigation key , then press OK .

DEFAULT CALL BACK

1. Press 2 ABC "Default Call Back".

2. Input the call back number, then press OK .

ALERT

1. Press 3 DEF "Alert".

2. Select the alert type (Ringtone/Vibrate/Silent /Ringtone&Remind/Vibrate&Remind) using the navigation key , then press OK .

MESSAGE SETTINGS

DISPLAY DELIVERY ACKNOWLEDGEMENT

1. Press 4 GHI “Display Deliv. Ack”.

2. Select (No/Yes) using the navigation key, then press OK.

AUTO ERASE

1. Press 5 JKL “Auto Erase”.

AUTO ERASE INBOX

1. Press 1 “Inbox”.

2. Select (Disable/Old Inbox) using the navigation key, then press OK.

AUTO ERASE OUTBOX

1. Press 2 ABC “Outbox”.

2. Select (Disable/Old Inbox) using the navigation key, then press OK.

ENTRY MODE

1. Press 6 MNO “Entry Mode”.

2. Select (Alpha Mode/T9 Mode) using the navigation key, then press OK.

Chapter 7

MAKING AN EMERGENCY CALL

EMERGENCY CALLING

E911 CALLING

Allows you to place emergency calls, even when the phone is locked. Emergency calls are placed on any available system.

1. Enter 911 and press .

2. The call will connect.

- ***When a emergency call ends, the phone is in the Emergency Mode for 5 minutes***

Chapter 8

VIRGINXTRAS

This chapter address using your cell phone to access VirginXtras.

- Start VirginXtras
- Browser Menu
- VirginXtras

START VIRGINXTRAS

Your CDM-8500 allows you access VirginXtras directly from your phone.

1. To access VirginXtras, press .

2. The Internet browser will launch.

3. Scroll down the page using the navigation key .

4. To select the softkey at the bottom of the display, press or .

5. To return to the previous page, press .

6. To exit VirginXtras, press .

BROWSER MENU

1. To enter the browser menu, press and hold .

RELOAD
Reloads current page.

1. To select Reload, press .

HOME
Displays Home Page.

1. To select Home, press .

BOOKMARKS
Displays Bookmark list.

1. To select Bookmarks, press .

MARK SITE
Adds a web page to bookmark list.

1. To select Mark Site, press .

ABOUT OPENWAVE
When you select the About Openwave of the Browser Menu, the browser version and copyright information is displayed. The device layer version is also displayed.

1. To select About Openwave, press .

ADVANCED
Displays Advanced Menu options.

1. To select Advanced, press 6 MNO .

- **SHOW URL**

Displays the URL (Uniform Resource Locator) of the current page.

1. To select Show URL, press 1 .

- **HOMEPAGE**

Enables you to change the homepage.

1. To select Homepage, press 2 ABC .

- **SET WAP PROXY**

Enables you to select another WAP PROXY.

1. To select Set UP.Link, press 3 DEF .

- **OFFLINE SERVICES**

1. To select Offline services, press 4 GHI .

- **OUTBOX**

1. To select Outbox, press 5 JKL .

- **RESTART BROWSER**

Causes the deck history and deck cache to be cleared and starts a new session with the UP. Link.

1. To select Restart Browser, press 6 MNO .

- **ENCRYPTION**

Displays a list of security-related items.

1. To select Encryption, press 7 PQRS .

Selecting the encryption item of browser menu displays a list of security-related items.

VIRGINXTRAS

ACCESSING VIRGINXTRAS

You can access a variety of entertainment, music, and information services.

1. To start a VirginXtras session and access these services, press .

- ***When you select VirginXtras, a session is initiated.***
- ***You cannot receive incoming calls when a VirginXtras session is in progress.***

Chapter 9

SAFETY INFORMATION

- Safety Information for Wireless Handheld Phones
- Safety Information for FCC RF Exposure
- SAR Information
- FDA Consumer Update

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

Read This Information Before Using Your Handheld Portable Cellular Telephone

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 88 (1986) *
ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

*;
American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Nonionizing Radiation Protection.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

PHONE OPERATION

Normal Position: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on efficient operation:
- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

DRIVING SAFETY

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them.

Also, if using your phone while driving please:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call, if driving conditions require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

If you have a pacemaker:

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Posted Facilities

Turn your phone OFF where posted notices so require.

OTHER SAFETY GUIDELINES

Aircraft
FCC Regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

Potentially Explosive Atmospheres

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

SAFETY INFORMATION FOR
WIRELESS HANDHELD PHONES

PRECAUTIONS AND WARNINGS

Please read and understand all of the Precautions and Warnings contained in this manual before attempting to operate your phone.

1. DO NOT use this equipment in an extreme environment where high temperature or high humidity exists, such as near a heater or in a closed car parked in the sun.

2. DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using the unit, lay down the unit to avoid possible damage due to instability.

3. DO NOT expose this equipment to liquids such as rain or spilled beverages.

4. DO NOT use unauthorized accessories. Use of unauthorized accessories may result in fire, electric shock or other bodily injury.

5. DO NOT disassemble the phone or its accessories. If service or repair is required, return the unit to an authorized Audiovox service center. If unit is disassembled, the risk of electric shock or fire may result.

6. DO NOT short-circuit the battery terminals with metal items etc.

7. DO NOT use harsh chemicals, cleaning solvents or strong detergents to clean this phone. Always clean it with a soft, damp cloth.

8. DO NOT paint this phone. This can clog moving parts.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OPERATING PROCEDURES

Never violate any of the following Rules and Regulations of the FCC when using your phone. The following offenses are punishable by fine, imprisonment, or both:

- Using obscene, indecent, or profane language.
- Using the unit to give off false distress calls.
- Wiretapping or otherwise intercepting a telephone call, unless that person has first obtained the consent of the parties participating in the call.
- Making anonymous calls to annoy, harass, or molest other people.
- Charging to an account without authorization to avoid payment for service.
- Refusing to yield a party line when informed that it is needed for an emergency call (It is also unlawful to take over a party line by stating falsely that it is needed for an emergency).

SAFETY INFORMATION FOR FCC RF EXPOSURE

WARNING! Read this information before using your phone

CAUTION

In August 1996, the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn Operation (Holster Part Number : 2H020665002)
This device was tested with holster (Part No:2H020665002) for body-worn operation with the back of the phone kept 0.59 inchs (15mm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.59 inchs (15mm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. All belt-clips, holsters and similar accessories used by this device must not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with FCC RF exposure limits and should be avoided.

Note: For more information about RF exposure, please visit the FCC website at www.fcc.gov.

SAR INFORMATION

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.* Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.15 W/kg and when worn on the body,

SAR INFORMATION

as described in this user guide, is 0.633 W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID PP4TX-50C.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) web-site at http://phonefacts.net.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

U.S. Food and Drug Administration -
Center for Devices and Radiological Health
Consumer Update on Mobile Phones

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

• Support needed research into possible biological effects of RF of the type emitted by wireless phones;
• Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
• Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

• National Institute for Occupational Safety and Health
• Environmental Protection Agency
• Federal Communications Commission
• Occupational Safety and Health Administration
• National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety

guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators.

The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones ?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless cell phones with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and

increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that that no interference occurs when a person uses a “compatible” phone and a “compatible” hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones: (http://www.fda.gov/cdrh/phones/index.html)

- Federal Communications Commission (FCC) RF Safety Program: (http://www.fcc.gov/oet/rfsafety)

- International Commission on Non-Ionizing Radiation Protection: (http://www.icnirp.de)

- World Health Organization (WHO) International EMF Project: (http://www.who.int/emf)

- National Radiological Protection Board (UK): (http://www.nrpb.org.uk/)

MEMO

Chapter 10

WARRANTY

- Protect Your Warranty
- 12 Month Limited Warranty

PROTECT YOUR WARRANTY

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

"Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling, misuse, neglect or accident".

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Audiovox product. Be careful. Some of these products may not be compatible to use with your Audiovox product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Audiovox accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Audiovox product.

AUDIOVOX COMMUNICATIONS CORP.
555 Wireless Blvd., Hauppauge, New York 11788, 800-229-1235
16808 Marquardt Avenue, Cerritos, California 90703, 562-802-5100

AUDIOVOX COMMUNICATIONS CANADA CO.
5155 Spectrum Way, Unit #5, Mississauga, Ontario
Canada L4W 5A1, 800-465-9672

12 MONTH LIMITED WARRANTY

AUDIOVOX COMMUNICATIONS CORP. (the Company) warrants to the original retail purchaser of this Audiovox Handheld Portable Cellular Telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, keypad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not assignable or transferable.

This Warranty does not apply to:

(a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;

(b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.

(c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;

(d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;

12 MONTH LIMITED WARRANTY

(e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;

(f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the Cellular System as a whole.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company at the address shown below or to the place or purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you can telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 905-712-9299).

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT

12 MONTH LIMITED WARRANTY

WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage, so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

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